

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL WITH STREET LIGHTING AND INTERCONNECT AT THE INTERSECTION OF US 50 (OCEAN GATEWAY) AND BARBER RD AND HOWELL POINT RD / MAIN ST IN TALBOT COUNTY. THE MODIFICATION WILL UPGRADE THE EXISTING LOOP DETECTORS FOR PRESENCE DETECTION TO VIDEO DETECTORS. THE EXISTING MICROLOOP PROBE DETECTORS FOR PASSAGE DETECTION WILL ALSO BE UPGRADED TO NON-INVASIVE DETECTORS. US 50 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION OPERATES IN A NEMA SIX (6) PHASE, FULLY-ACTUATED MODE. US 50 APPROACHES OPERATE CONCURRENTLY, AND EXCLUSIVE-PERMISSIVE LEFT TURN PHASES ARE PROVIDED FOR BOTH APPROACHES OF US 50. BARBER RD AND HOWELL POINT RD / MAIN ST APPROACHES OPERATE CONCURRENTLY. A "RED SIGNAL AHEAD" LED WARNING SIGN EXISTS ON US 50 WESTBOUND AND DRIVER SPEED FEEDBACK SIGNS EXIST ON BOTH APPROACHES ON US 50.
2. AN EXISTING FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER IN A NEMA SIZE "6" BASE MOUNTED CABINET SHALL BE UTILIZED. EXISTING VIDEO DETECTION INTERFACE SHALL BE REMOVED AND A NEW VIDEO DETECTION INTERFACE SHALL BE INSTALLED INTO THE CABINET BY SHA FORCES.

CONTACTS

DISTRICT	OFFICE OF TRAFFIC AND SAFETY
MR. RICHARD LINDSAY DISTRICT ENGINEER 410-810-3210	MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. ROBERT KIEL ASSISTANT DISTRICT ENGINEER - TRAFFIC 410-810-3240	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. BARRY CLOTHIER ASSISTANT DISTRICT ENGINEER - UTILITIES 410-810-3275	MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650
MR. WM NORRIS EMBERT ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-810-3270	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670
MR. TERRY WRIGHT ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410-810-3250	MS. DARLENE EIDE SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9087	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 5-8 CAMERAS

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

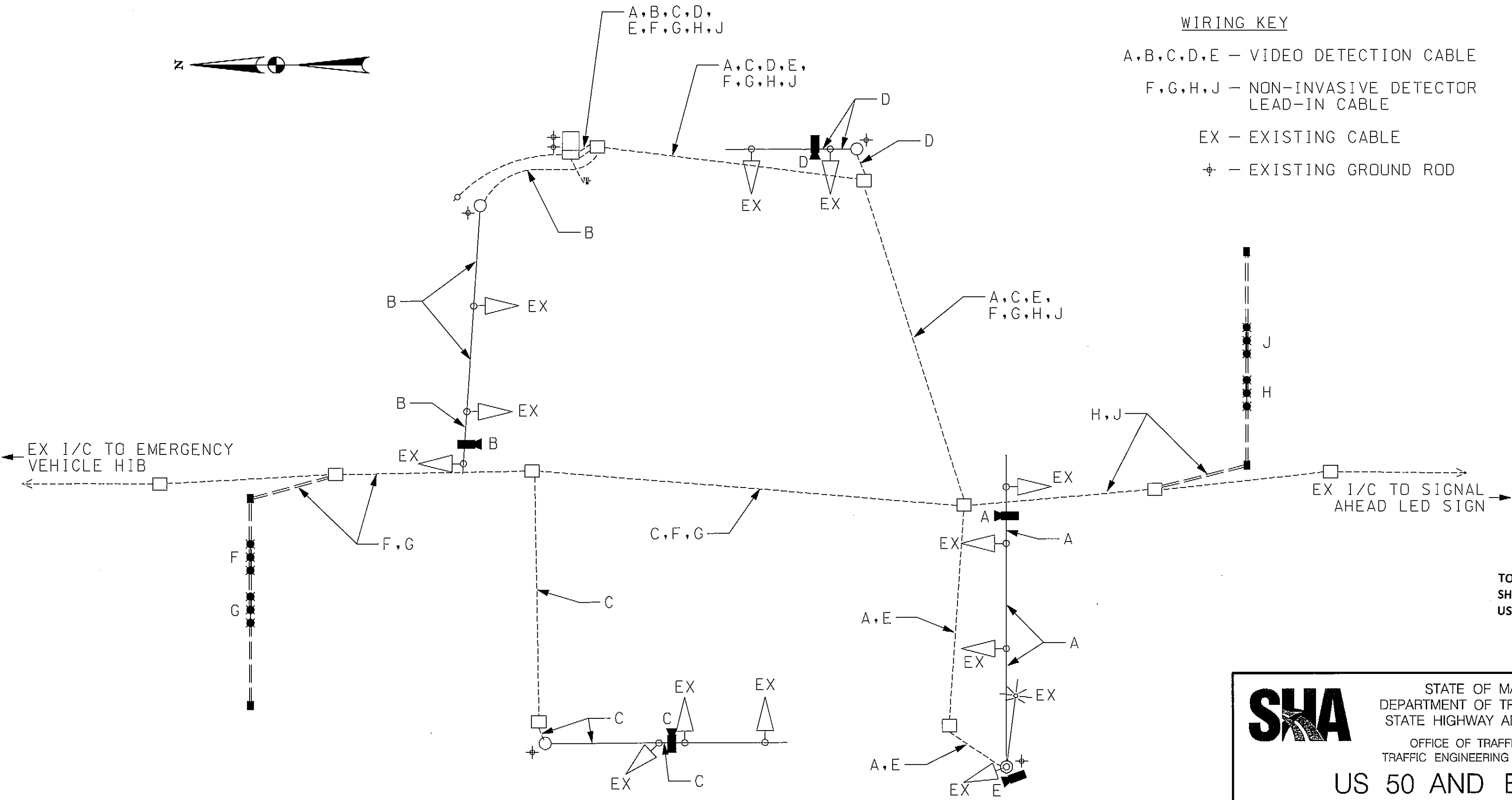
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8006	1 EA	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
8007	5 EA	VIDEO DETECTION CAMERA & CABLE
8011	105 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED
8013	370 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
8018	4 EA	NONINVASIVE DETECTOR UP TO 1000' LEAD IN CABLE
8019	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

C. SHA FORCES SHALL REMOVE THE EXISTING VIDEO DETECTION INTERFACE AND ASSOCIATED EQUIPMENT FROM THE CONTROLLER CABINET. EXISTING VIDEO DETECTION CAMERAS REMOVED SHALL BE RETURNED TO THE SHA SIGNAL SHOP. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

NO PHASE CHANGE

WIRING DIAGRAM



WIRING KEY

- A,B,C,D,E - VIDEO DETECTION CABLE
- F,G,H,J - NON-INVASIVE DETECTOR LEAD-IN CABLE
- EX - EXISTING CABLE
- + - EXISTING GROUND ROD

TOD NO:XX356-01  
SHA NO:AX885K51  
US 50@VARIOUS LOCATION



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

US 50 AND BARBER RD  
DETECTION UPGRADE  
TRAPPE, MD

GENERAL INFORMATION SHEET

SCALE	N.T.S.	DATE	SEPTEMBER 2, 2009	CONTRACT NO.	XX356S168
DESIGNED BY	M. FUKUI	COUNTY	TALBOT		
DRAWN BY	M. FUKUI	LOGMILE	20005019.92		
CHECKED BY		TIMS NO.	J601		
F.A.P. NO.		TOD NO.			
TS NO.	402J	DRAWING	SG-08	OF 10	SHEET NO. 08 OF 10